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IF (PKT_ENCODE[3:2] = 0)
    PKT_TYP_TX[3:0] = 4b'1001    // AUX1
    IF (G_T_DM1 = 1)
        PLD_SIZETX = DM1_MAX
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
ELSE IF (PKT_ENCODE[3:2] = 1)
    IF (PKT_ENCODE[1:0] = 2 && G_T_DM3 = 1)
        PKT_TYP[3:0] = 4b'1110    // DM5
        IF (G_T_DM5 = 1)
            PLD_SIZETX = Num_224
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    ELSEIF (PKT_ENCODE[1] = 1 && G_T_DM1 = 1)
        PKT_TYP[3:0] = 4b'1010    // DM3
        IF (G_T_DM3 = 1)
            PLD_SIZETX = Num_121
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    ELSE
        PKT_TYP[3:0] = 4b'0011    // DM1
        IF (G_T_DM1 = 1)
            PLD_SIZETX = DM1_MAX
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    END_IF
ELSE IF (PKT_ENCODE[3:2] = 2)
    IF (PKT_ENCODE[1:0] = 2 && G_T_DH3 = 1)
        PKT_TYP[3:0] = 4b'1111    // DH5
        IF (G_T_DH5 = 1)
            PLD_SIZETX = Num_339
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    ELSEIF (PKT_ENCODE[1] = 1 && G_T_DH1 = 1)
        PKT_TYP[3:0] = 4b'1011    // DH3
        IF (G_T_DH3 = 1)
            PLD_SIZETX = Num_183
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    ELSE
        PKT_TYP[3:0] = 4b'0011    // DH1
        IF (G_T_DH1 = 1)
            PLD_SIZETX = Num_27
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    END_IF
ELSE
    IF (PKT_ENCODE[1:0] = 2 && G_T_DM5 = 1)
        PKT_TYP[3:0] = 4b'1111    // DH5
        IF (G_T_DH5 = 1)
            PLD_SIZETX = Num_339
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    ELSE IF (PKT_ENCODE[1:0] = 2 && G_T_DH3 = 1)
        PKT_TYP[3:0] = 4b'1110    // DM5
        IF (G_T_DM5 = 1)
            PLD_SIZETX = Num_224
        ELSE
            PLD_SIZETX = Available_Length
        END_IF
    ELSEIF (PKT_ENCODE[1] = 1 && G_T_DM3 = 1)
        PKT_TYP[3:0] = 4b'1011    // DH3
    
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    IF (G_T_DH3 = 1)
        PLD_SIZETX = Num_183
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
ELSEIF (PKT_ENCODE[1] = 1 && G_T_DH1 = 1)
    PKT_TYP[3:0] = 4b'1010 //DM3
    IF (G_T_DM3 = 1)
        PLD_SIZETX = Num_121
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
ELSEIF (G_T_DM1 = 1)
    PKT_TYP[3:0] = 4b'0011 //DH1
    IF (G_T_DH1 = 1)
        PLD_SIZETX = Num_27
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
ELSE
    PKT_TYP[3:0] = 4b'0011 //DM1
    IF (G_T_DM1 = 1)
        PLD_SIZETX = DM1_MAX
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
END_IF
END_IF

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